



# SEQUENCE LISTING

<110> Salmedix, Inc.  
Leoni, Lorenzo M.

<120> COMPOSITIONS AND METHODS FOR THE DETECTION AND TREATMENT OF METHYLTHIOADENOSINE PHOSPHORYLASE DEFICIENT CANCERS

<130> 076936-0307942

<140> 10/779,476

<141> 2004-02-13

<150> 60/447,888

<151> 2003-02-14

<150> 60/460,715

<151> 2004-04-04

<160> 12

<170> PatentIn version 3.2

<210> 1

<211> 283

<212> PRT

<213> Homo sapiens

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Tyr Val Asp Thr Pro Phe Gly Lys Pro Ser Asp Ala Leu Ile Leu Gly  
35 40 45

Lys Ile Lys Asn Val Asp Cys Ile Leu Leu Ala Arg His Gly Arg Gln  
50 55 60

His Thr Ile Met Pro Ser Lys Val Asn Tyr Gln Ala Asn Ile Trp Ala  
65 70 75 80

Leu Lys Glu Glu Gly Cys Thr His Val Ile Val Thr Thr Ala Cys Gly  
85 90 95

Ser Leu Arg Glu Glu Ile Gln Pro Gly Asp Ile Val Ile Ile Asp Gln  
100 105 110

Phe Ile Asp Arg Thr Thr Met Arg Pro Gln Ser Phe Tyr Asp Gly Ser  
 115 120 125

His Ser Cys Ala Arg Gly Val Cys His Ile Pro Met Ala Glu Pro Phe  
 130 135 140

Cys Pro Lys Thr Arg Glu Val Leu Ile Glu Thr Ala Lys Lys Leu Gly  
 145 150 155 160

Leu Arg Cys His Ser Lys Gly Thr Met Val Thr Ile Glu Gly Pro Arg  
 165 170 175

Phe Ser Ser Arg Ala Glu Ser Phe Met Phe Arg Thr Trp Gly Ala Asp  
 180 185 190

Val Ile Asn Met Thr Thr Val Pro Glu Val Val Leu Ala Lys Glu Ala  
 195 200 205

Gly Ile Cys Tyr Ala Ser Ile Ala Met Ala Thr Asp Tyr Asp Cys Trp  
 210 215 220

Lys Glu His Glu Glu Ala Val Ser Val Asp Arg Val Leu Lys Thr Leu  
 225 230 235 240

Lys Glu Asn Ala Asn Lys Ala Lys Ser Leu Leu Leu Thr Thr Ile Pro  
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Gln Ile Gly Ser Thr Glu Trp Ser Glu Thr Leu His Asn Leu Lys Asn  
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Met Ala Gln Phe Ser Val Leu Leu Pro Arg His  
 275 280

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 <213> Homo sapiens

<400> 3

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 20 25 30

Glu Ala Gly Ala Leu Pro Asn Ala Pro Asn Ser Tyr Gly Arg Arg Pro  
 35 40 45

Ile Gln Val Met Met Met Gly Ser Ala Arg Val Ala Glu Leu Leu Leu  
 50 55 60

Leu His Gly Ala Glu Pro Asn Cys Ala Asp Pro Ala Thr Leu Thr Arg  
 65 70 75 80

Pro Val His Asp Ala Ala Arg Glu Gly Phe Leu Asp Thr Leu Val Val  
 85 90 95

Leu His Arg Ala Gly Ala Arg Leu Asp Val Arg Asp Ala Trp Gly Arg  
 100 105 110

Leu Pro Val Asp Leu Ala Glu Glu Leu Gly His Arg Asp Val Ala Arg  
 115 120 125

Tyr Leu Arg Ala Ala Ala Gly Gly Thr Arg Gly Ser Asn His Ala Arg  
 130 135 140

Ile Asp Ala Ala Glu Gly Pro Ser Asp Ile Pro Asp  
 145 150 155

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 <212> DNA  
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<210> 5  
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 <212> PRT  
 <213> Homo sapiens

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Glu Leu Gly Pro Gly Gly Gly Glu Asn Met Val Arg Arg Phe Leu Val  
 35 40 45

Thr Leu Arg Ile Arg Arg Ala Cys Gly Pro Pro Arg Val Arg Val Phe  
 50 55 60

Val Val His Ile Pro Arg Leu Thr Gly Glu Trp Ala Ala Pro Gly Ala  
 65 70 75 80

Pro Ala Ala Val Ala Leu Val Leu Met Leu Leu Arg Ser Gln Arg Leu  
 85 90 95

Gly Gln Gln Pro Leu Pro Arg Arg Pro Gly His Asp Asp Gly Gln Arg  
 100 105 110

Pro Ser Gly Gly Ala Ala Ala Ala Pro Arg Arg Gly Ala Gln Leu Arg  
 115 120 125

Arg Pro Arg His Ser His Pro Thr Arg Ala Arg Arg Cys Pro Gly Gly  
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Leu Pro Gly His Ala Gly Gly Ala Ala Pro Gly Arg Gly Ala Ala Gly  
 145 150 155 160

Arg Ala Arg Cys Leu Gly Pro Ser Ala Arg Gly Pro Gly  
 165 170

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 <212> DNA  
 <213> Homo sapien

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 <212> PRT  
 <213> Homo sapiens

<400> 7

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 20 25 30

Asp Ala Ala Arg Glu Gly Phe Leu Asp Thr Leu Val Val Leu His Arg  
 35 40 45

Ala Gly Ala Arg Leu Asp Val Arg Asp Ala Trp Gly Arg Leu Pro Val  
 50 55 60

Asp Leu Ala Glu Glu Leu Gly His Arg Asp Val Ala Arg Tyr Leu Arg  
 65 70 75 80

Ala Ala Ala Gly Gly Thr Arg Gly Ser Asn His Ala Arg Ile Asp Ala  
 85 90 95

Ala Glu Gly Pro Ser Asp Ile Pro Asp  
 100 105

<210> 8  
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 <212> DNA  
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<211> 116  
<212> PRT  
<213> Homo sapiens

<400> 9

Met Glu Pro Ala Ala Gly Ser Ser Met Glu Pro Ser Ala Asp Trp Leu  
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Ala Thr Ala Ala Ala Arg Gly Arg Val Glu Glu Val Arg Ala Leu Leu  
20 25 30

Glu Ala Gly Ala Leu Pro Asn Ala Pro Asn Ser Tyr Gly Arg Arg Pro  
35 40 45

Ile Gln Val Gly Arg Arg Ser Ala Ala Gly Ala Gly Asp Gly Gly Arg  
50 55 60

Leu Trp Arg Thr Lys Phe Ala Gly Glu Leu Glu Ser Gly Ser Ala Ser  
65 70 75 80

Ile Leu Arg Lys Lys Gly Arg Leu Pro Gly Glu Phe Ser Glu Gly Val  
85 90 95

Cys Asn His Arg Pro Pro Pro Gly Asp Ala Leu Gly Ala Trp Glu Thr  
100 105 110

Lys Glu Glu Glu  
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<210> 10  
 <211> 1515  
 <212> DNA  
 <213> Homo sapiens

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ttcattcatt cactc

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<210> 11

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for  
cloning MTAP cDNA

<400> 11

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27

<210> 12

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Antisense primer for  
cloning MTAP cDNA

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27